

EQUINOX[®]

SuperSerial™ Technology

Quick Start Installation Guide

SST Multi-modem PCI 4
SST Multi-modem PCI 8

PN 560168/C
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SST Multi-modem PCI Adapter

The Equinox *SuperSerial Technology Multi-modem Adapter* (*SST-MM4P*, *SST-MM8P*) allows the connection of up to 8 internal modems directly to SCO OpenServer, SCO UnixWare, Linux, Citrix WinFrame, Citrix MetaFrame, Windows Terminal Server, Windows NT, or Windows 2000 operating systems. The basic components for an Equinox SST Multi-modem Adapter include:

- One *SST-MM4P* (PN 990400 or 990414 (INTL CTR21)) or *SST-MM8P* (PN990401 or 990415 (INTL CTR21)) *Multi-modem Card*
- One *Equinox SuperSerial Software CD-ROM*

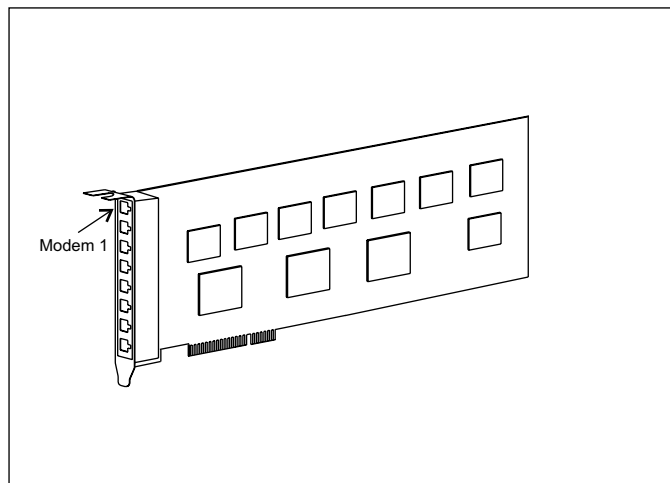


Figure 1. Equinox Multi-modem Card

Up to four *SST Multi-modem Adapters* can be installed in a system, providing up to 32 internal modems per server.

Multi-modem Adapter

The *SST Adapter Card* (see Figure 1) occupies a single PCI bus slot in the host computer and provides the intelligent communications functions to "off-load" virtually all the serial communications burden from the system. Four and eight port Multi-modem PCI bus SST Adapters are available for systems using SCO OpenServer, SCO UnixWare, Linux, Citrix WinFrame, Citrix MetaFrame, Windows Terminal Server, Windows NT, or Windows 2000 operating systems.

Modem Configuration Files

The *Equinox SuperSerial Software CD-ROM* included in your package contains the Modem Configuration Files for Windows 2000, Windows NT 4.0, and Windows NT 3.51. To use the Multi-modem Adapter under Windows NT 3.51 or Citrix WinFrame 1.7, the modem.inf file must be modified to include the Equinox modems. The modem.inf must be changed in two separate places in the Windows NT driver files. There is a file named modeminf.txt and the contents of this file must be copied into the modem.inf file. RAS has to be installed prior to making these changes.

Hardware Installation

Use the following procedure to install your SST Multi-modem Adapter. As an alternative, you may follow the installation instructions presented in your host system documentation.

1. Set the host computer system power switch to OFF and disconnect the power cord.
2. Locate a free PCI expansion slot.
3. Insert and secure the card firmly into the expansion slot.
4. Replace the power cord and turn the host computer system ON.
5. Install the device driver software (see CD-ROM for details).
6. Connect telephone cables to the modems.

PCI System Setup

Peripheral Component Interconnect (PCI) system architecture has a design feature termed *Plug and Play*. This feature automatically detects, identifies, and configures all **currently** installed devices each time the system is booted. Therefore, whenever an adapter is installed (or removed) in a PCI system, it is recognized and configured immediately upon restart.

Modem Configuration

Windows 2000

1. Log into your local console as ADMINISTRATOR.
2. When the *Hardware Wizard* has detected the new hardware and displays the *Found New Hardware* Dialog box, click the *Next* button.
3. Select the option to *Search for a suitable driver for my device*, and click the *Next* button.
4. Choose the location of the driver files or specify the path to them. If using the installation diskettes, insert Disk into the floppy drive and check the option *Floppy disk driver*. Click the *Next* button.
5. The following window will show the *Equinox SST Multi-modem PCI Adapter* installed and it will find the file *asynceqn.inf*. Click the *Next* button.
6. If the *Digital signature Not Found* window comes up during installation, select *Yes* to continue the installation.
7. Once the driver is installed, click *Finish* and restart the server.
8. After rebooting, the ports will begin to install.
9. When the ***Equinox V.90 Multi-modems*** are found, repeat steps 2, 3, 4, and 6.

Windows NT 4.0

NOTE: The SuperSerial Driver must be installed before installing the modems as outlined below. (Please refer to the documentation on the SuperSerial CD-ROM for specific Driver installation instructions).

1. Log in to your local console as ADMINISTRATOR; click the START button.
2. Select SETTINGS, then CONTROL PANEL.
3. Click on the MODEM ICON.
4. At the INSTALL NEW MODEM, click *Next*.
5. NT will autodetect your modem.
6. Highlight the ***Equinox V.90 Multi-modem*** modem and click *Next*.
7. Your modem will be detected as ***Equinox V.90 Multi-modem***.
8. When you are prompted to assign the modem to a COM port(s), make your selection, click *Next* and then *Finish*.

9. If you have installed RAS, you will be prompted to update RAS modem assignments. Follow the on-screen instructions for this configuration.

Windows NT 3.51

NOTE: The SuperSerial Driver must be installed before installing the modems as outlined below. (Please refer to the documentation on the SuperSerial CD-ROM for specific Driver installation instructions).

1. Log in to your local console as ADMINISTRATOR.
2. Follow the standard Windows NT 3.51 procedures to add modems to your OS and RAS.
3. Your new modems will be identified as ***Equinox V.90 Multi-modem.***

SCO OpenServer and UnixWare

NOTE: The SuperSerial Driver must be installed before installing the modems as outlined below. (Please refer to the documentation on the SuperSerial CD-ROM for specific Driver installation instructions).

- Set up modem ports by following the SCO Serial Manager and Modem Manager instructions to complete the installation.

Please refer to the Equinox Knowledge Base (www.equinox.com) for additional information.

Linux

Note: This example is based on Red Hat kernels. Please check your system documentation for file locations and options specific to your system.

- Edit `/etc/inittab` to enable ports:

```
A1:2345:respawn:/sbin/mgetty ttyQ1a1 -s 115200 -D
A2:2345:respawn:/sbin/mgetty ttyQ1a2 -s 115200 -D
... etc.
```

Where:

A1 = getty number or device number (you can place anything here, e.g. letters (**A1**), names (ttyQ1a1), etc.

2345 = run levels that you want this getty to run in.

respawn = enable this modem every time your system runs.

/sbin/mgetty = for modems, you must use mgetty. If you do not have mgetty installed, you must install it.

tttyQ1a1 = (actual device name) This is how our ports are named in Linux. "ttyQ1a1, ttyQ1a2, ttyQ1a3", and so on.

-s 115200 = actual modem speed you want to use.

-D = data only.

At any time if you want to stop these gettys from running, simply go back into the `/etc/inittab` file and place a `#` in front of the line and then save the file, and then type in the command `init q`.

- To enable mgetty's ppp auto negotiation feature, you must edit the file `login.conf`, typically found under `/etc/mgetty+sendfax/`

uncomment or add, as necessary, the following:

```
/AutoPPP/ - a_ppp /usr/sbin/pppd auth -chap + pap login
```

NOTE: The ppp package must have been compiled with the option

- `DAUTO_PPP` (*default compile* for most packages)

- Check your system documentation for file locations and options specific to your system.

Command Line Syntax and Response Codes

The modem responds to commands from the DTE and to activity on the line by signalling to the DTE in the form of result codes. The result codes that the modem can send are described below.

Two forms of each result code are available: long-form, an English-like “verbose” response, and short-form, a data-like numeric response. The long-form code is preceded and terminated by the sequence <CR><LF>.

The short-form is terminated by <CR> only, with no preceding sequence. If result messages are suppressed, nothing is returned to the DTE.

| | | |
|------------------------------|----------------------|---------------------|
| 00 - OK | 51 - CARRIER 12000 | 159 - CARRIER 50000 |
| 01 - CONNECT | 52 - CARRIER 14400 | 160 - CARRIER 52000 |
| 02 - RING | 53 - CARRIER 16800 | 161 - CARRIER 54000 |
| 03 - NO CARRIER | 54 - CARRIER 19200 | 162 - CARRIER 56000 |
| 04 - ERROR | 55 - CARRIER 21600 | 165 - CONNECT 32000 |
| 05 - CONNECT 1200 | 56 - CARRIER 24000 | 166 - CONNECT 34000 |
| 06 - NO DIALTONE | 57 - CARRIER 26400 | 167 - CONNECT 36000 |
| 07 - BUSY | 58 - CARRIER 28800 | 168 - CONNECT 38000 |
| 08 - NO ANSWER | 59 - CARRIER 31200 | 169 - CONNECT 40000 |
| 09 - CONNECT 600 | 60 - CARRIER 33600 | 170 - CONNECT 42000 |
| 10 - CONNECT 2400 | 61 - CONNECT 21600 | 171 - CONNECT 44000 |
| 11 - CONNECT 4800 | 62 - CONNECT 24000 | 172 - CONNECT 46000 |
| 12 - CONNECT 9600 | 63 - CONNECT 26400 | 173 - CONNECT 48000 |
| 13 - CONNECT 7200 | 64 - CONNECT 28800 | 174 - CONNECT 50000 |
| 14 - CONNECT 12000 | 66 - COMPRESSION: | 175 - CONNECT 52000 |
| 15 - CONNECT 14400 | CLASS 5 | 176 - CONNECT 54000 |
| 16 - CONNECT 19200 | 67 - COMPRESSION: | 177 - CONNECT 56000 |
| 17 - CONNECT 38400 | V.42 bis | 178 - CONNECT 23400 |
| 18 - CONNECT 57600 | 69 - COMPRESSION: | 180 - CONNECT 28000 |
| 19 - CONNECT 115200 | NONE | 181 - CONNECT 29333 |
| 22 - CONNECT 75TX/ 1200RX | 70 - PROTOCOL: NONE | 182 - CONNECT 30667 |
| 23 - CONNECT 1200TX/ 75RX | 77 - PROTOCOL: LAP-M | 183 - CONNECT 33333 |
| 33 - FAX | 80 - PROTOCOL ALT | 184 - CONNECT 34667 |
| 35 - DATA | 84 - CONNECT 33600 | 185 - CONNECT 37333 |
| 40 - CARRIER 300 | 91 - CONNECT 31200 | 186 - CONNECT 38667 |
| 44 - CARRIER 1200/75 | 150 - CARRIER 32000 | 187 - CONNECT 41333 |
| 45 - CARRIER 75/1200 | 151 - CARRIER 34000 | 188 - CONNECT 42667 |
| 46 - CARRIER 1200 | 152 - CARRIER 36000 | 189 - CONNECT 45333 |
| 47 - CARRIER 2400 | 153 - CARRIER 38000 | 190 - CONNECT 46667 |
| 48 - CARRIER 4800 | 154 - CARRIER 40000 | 191 - CONNECT 49333 |
| 49 - CARRIER 7200 | 155 - CARRIER 42000 | 192 - CONNECT 50667 |
| 50 - CARRIER 9600 | 156 - CARRIER 44000 | 193 - CONNECT 53333 |
| | 157 - CARRIER 46000 | 194 - CONNECT 54667 |
| | 158 - CARRIER 48000 | |

Modem Commands

The modem will respond to the commands detailed below. Parameters applicable to each command are listed with the command description. The defaults shown for each configuration command are those used in the factory profile 0.

Standard "AT" Commands:

| | |
|----|---|
| A/ | Re-execute command |
| A | Go off-hook and attempt to answer a call |
| B0 | Select V.22 connection at 1200 bps |
| B1 | Select Bell 212A connection at 1200 bps |
| C1 | Return OK message |
| Dn | Dial modifier |
| E0 | Turn off command echo |
| E1 | Turn on command echo |
| H0 | Initiate a hang-up sequence |
| H1 | If on-hook, go off-hook and enter command mode |
| I0 | Report product code |
| I1 | Compute and report checksum |
| I2 | Compute checksum and report result of comparison to presented checksum |
| I3 | Report firmware revisions, model and interface type |
| I4 | Report response programmed by an OEM |
| I5 | Report the country code parameter |
| I6 | Report modem data pump model and code revision |
| L0 | Set low speaker volume |
| L1 | Set low speaker volume |
| L2 | Set medium speaker volume |
| L3 | Set high speaker volume |
| M0 | Turn speaker off |
| M1 | Turn speaker on during handshaking and turn speaker off while receiving carrier |
| M2 | Turn speaker on during handshaking and while receiving carrier |
| M3 | Turn speaker on during dialing; receiving carrier, turn speaker on during answering |
| N0 | Turn off automode detection |
| N1 | Turn on automode detection |

| | |
|-----|--|
| O0 | Go on-line |
| O1 | Go on-line and initiate a retrain sequence |
| P | Force pulse dialing |
| Q0 | Allow result codes to DTE |
| Q1 | Inhibit result codes to DTE |
| Sn | Select S-Register as default |
| Sn? | Return the value of S-Register n |
| =v | Set default S-Register to value v |
| ? | Return the value of default S-Register |
| T | Force DTMF dialing |
| V0 | Report short form (terse) result codes |
| V1 | Report long form (verbose) result codes |
| W0 | Report DTE speed in EC mode |
| W1 | Report line speed, EC protocol and DTE speed |
| W2 | Report DCE speed in EC mode |
| X0 | Report basic call progress result codes, i.e., OK, CONNECT, RING, NO CARRIER, (also for busy, if enabled, and dial tone detected), NO ANSWER and ERROR |
| X1 | Report basic call progress result codes and connections speeds (OK, CONNECT, RING, NO CARRIER, (also for busy, if enabled, and dial tone not detected), NO ANSWER, CONNECT XXXX and ERROR |
| X2 | Report basic call progress result codes and connections speeds, i.e., OK, CONNECT, RING, NO CARRIER (also for busy, if enabled, and dial tone not detected), NO ANSWER, CONNECT XXXX and ERROR |
| X3 | Report basic call progress result codes and connection rate, i.e., OK, CONNECT, RING, NO CARRIER, NO ANSWER, CONNECT XXXX, BUSY, ERROR |
| X4 | Report all call progress result codes and connection rate, i.e., OK, CONNECT, RING, NO CARRIER, NO ANSWER, CONNECT XXXX, BUSY, NO DIAL TONE, ERROR |
| Y0 | Disable long space disconnect before on-hook |
| Y1 | Enable long space disconnect before on-hook |
| Z0 | Restore stored profile 0 after warm reset |
| Z1 | Restore stored profile 1 after warm reset |
| &C0 | Force RLSD active regardless of the carrier state |
| &C1 | Allow RLSD to follow the carrier state |

| | | |
|-----|---|---------------------------|
| &D0 | Interpret DTR ON-to-OFF transition per &Qn: | |
| | &Q0, &Q5, &Q6 | Modem ignores DTR |
| | &Q1, &Q4 | Modem hangs up |
| | &Q2, &Q3 | Modem hangs up |
| &D1 | Interpret DTR ON-to-OFF transition per &Qn: | |
| | &Q0, &Q1, &Q4, &Q5, &Q6 | Asynchronous escape |
| | &Q2, &Q3 | Modem hangs up |
| &D2 | Interpret DTR ON-to-OFF transition per &Qn: | |
| | &Q0, &Q6 | Modem hangs up |
| &D3 | Interpret DTR ON-to-OFF transition per &Qn: | |
| | &Q0, &Q1, &Q4, &Q5, &Q6 | Modem performs soft reset |
| | &Q2, &Q3 | Modem hangs up |
| &F0 | Restore configuration 0 | |
| &F1 | Restore factory configuration 1 | |
| &G0 | Disable guard tone | |
| &G1 | Disable guard tone | |
| &G2 | Enable 1800 Hz guard tone | |
| &J0 | Set S-Register response only for compatibility* | |
| &J1 | Set S-Register response only for compatibility* | |
| &K0 | Disable DTE/DCE flow control | |
| &K3 | Enable RTS/CTS DTE/DCE flow control | |
| &K4 | Enable XON/XOFF DTE/DCE flow control | |
| &K5 | Enable transparent XON/XOFF flow control | |
| &K6 | Enable both RTS/CTS and XON/XOFF flow control | |
| &L0 | Select dial up line operation | |
| &M0 | Select direct asynchronous mode | |
| &P0 | Set 10 pps pulse dial with 39% / 61% make/break | |
| &P1 | Set 10 pps pulse dial with 33% / 67% make/break | |
| &P2 | Set 20 pps pulse dial with 39% / 61% make/break | |
| &P3 | Set 20 pps pulse dial with 33% / 67% make/break | |
| &Q0 | Select direct asynchronous mode | |
| &Q5 | Modem negotiates an error connected link | |
| &Q6 | Select asynchronous operation in normal mode | |
| &R0 | CTS tracks RTS (async) or acts per V.25 (sync) | |

&R1 CTS is always active
 &S0 DSR is always active
 &S1 DSR acts per V.25

 &T0 Terminate any test in process
 &T1 Initiate local analog loopback
 &T2 Returns ERROR result code
 &T3 Initiate local digital loopback
 &T4 Allow remote digital loopback
 &T5 Disallow remote digital loopback request
 &T6 Request an RDL without self-test
 &T7 Request an RDL with self-test
 &T8 Initiate local analog loop with self-test

 &V Display current configurations

 &W0 Store the active profile in NVRAM profile 0
 &W1 Store the active profile in NVRAM profile 1
 &Y0 Recall stored profile 0 upon power up
 &Y1 Recall stored profile 1 upon power up

 &Zn=x Store dial string x to location n (0 to 3)

 %E0 Disable line quality monitor and auto retrain
 %E1 Enable line quality monitor and auto retrain
 %E2 Enable line quality monitor and fallback forward

 %L Return received line signal level

 %Q Report the line signal quality

 \Kn Controls break handing during three states

 When modem receives a break from the DTE:

 \K0,2,4 Enter on-line command mode, no break sent to the remote modem
 \K1 Clear buffers and send break to remote modem
 \K3 Send break to remote modem immediately
 \K5 Send break to remote modem in sequence with transmitted data

When modem receives \B in on-line command state:

\K0,1 Clear buffers and send break to remote modem
 \K2,3 Send break to remote modem immediately
 \K4,5 Send break to remote modem in sequence with transmitted data

| |
|----------------------|
| * North America only |
|----------------------|

Modem's S-Registers

| Register | Function | Range/Unit | Default |
|----------|--|---------------------|---------|
| S0 | Number of Rings to Auto Answer | 0-255/rings | 0 |
| S1 | Ring Counter | 0-255/rings | 0 |
| S2 | Escape Character | 0-255/decimal | 43 |
| S3 | Carriage Return Character | 0-127/decimal | 13 |
| S4 | Line Feed Character | 0-127/decimal | 10 |
| S5 | Backspace Character | 0-32/ASCII | 8 |
| S6 | Wait time for Dial Tone before Blind Dialing | 2-255/seconds | 2 |
| S7 | Wait timer for Carrier after Dial, for silence, or for Dial Tone after "W" Dial Modifier | 1-255/seconds | 50 |
| S8 | pause Time for Dial Delay | 0-255/seconds | 2 |
| S9 | Carrier Detect Response Time | 1-255/seconds | 6 |
| S10 | Lost Carrier to Hang Up Delay | 1-255/seconds | 14 |
| S11 | DTMF Tone Duration | 50-255/milliseconds | 95 |
| S12 | Escape Code Guard Time | 0-255/seconds | 50 |
| S13 | Reserved | | |
| S14 | General Bit Mapped Options | | 138 |
| S15 | Reserved | | |
| S16 | General Bit Mapped Test Options | | 0 |
| S17 | Reserved | | |
| S18 | Test Timer | 0-255/seconds | 0 |
| S19 | Reserved | | |
| S20 | Reserved | | |
| S21 | V.24/General Bit Mapped Options | | 4 |
| S22 | Speaker/Results Bit Mapped Options | | 117 |
| S23 | General Bit Mapped Options | | 55 |
| S24 | Sleep Inactivity Timer | 0-255/seconds | 0 |
| S25 | Delay to DTR | 0-255/seconds | 5 |
| S26 | RTS to CTS Delay | 0-255/seconds | 1 |
| S27 | Bit Mapped Options | | 74 |
| S28 | Bit Mapped Options | | 0 |
| S29 | Flash Dial Modifier Time | 0-255/milliseconds | 70 |
| S30 | Disconnect Inactivity Timer | 0-255/seconds | 0 |
| S31 | Bit Mapped Options | | 194 |
| S32 | XON Character | | 17 |
| S33 | XOFF Character | | 19 |
| S34 | Reserved | | |
| S35 | Reserved | | |
| S36 | Reserved | | |
| S37 | Desired Line Connection Speed | | 0 |
| S38 | Reserved | | |
| S39 | Flow Control | | 3 |
| S40 | Reserved | | |
| S41 | General Bit Mapped Options | | |

Modem's S-Registers con't

| Register | Function | Range/Unit | Default |
|----------|------------------------------------|--------------|---------|
| S46 | Data Compression Control | 136 or 138 | 138 |
| S48 | V.42 Negotiation Action | 0, 7, or 128 | 7 |
| S82 | Break Handling Option | 3, 7, or 128 | 128 |
| S91 | PSTN Transmit Attenuation Level | 0-15/dBm | 10 |
| S92 | Fax Transmit Attenuation Level | 0-15/dBm | 10 |

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Federal Communication Commission (FCC) Statement

Connection to party line service is subject to state tariffs. (Contact the state public utility commission, public service commission, or corporation commission for information).

This equipment complies with Part 68 of the FCC Rules. On the Rear Circuit Side of this equipment is a label that contains, among other information, the FCC registration number and Ringer Equivalence Number (REN) for this equipment.

The registration jack USOC for the equipment is RJ11C.

This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack, which is Part 68 compliant. See installation instructions for details.

The REN is useful to determine the quantity of devices that may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of RENs of all devices should not exceed five (5). To be certain of the number of devices that may be connected to a line, as determined by the RENs, contact the local telephone company.

If the SST Multi-modem adapters cause harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. However, if advance notice isn't practical, you will be notified as soon as possible. You will be advised of your right to file a complaint with the FCC if you believe it is necessary.

Your telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of your equipment. If they do, you will be given advance notice so as to give you an opportunity to maintain uninterrupted service.

In you experience trouble with the SST-MM4/8P, please contact Equinox Customer Support at (954) 746-9000, ext: 322 for repair/warranty information. If your equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

Repairs customers can make:

This equipment is not user serviceable. For repair, contact Customer Support at number indicated above.

Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

This equipment may not be used on public coin service provided by the

NOTICE: The Industry Canada label identifies certified equipment.

This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements.

The Industry Canada does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

telephone company. Connection to party lines is subject to state tariffs. (Contact your state public utility commission or corporation commission for information).

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced technician for assistance.

Note: The provided cable accessories must be used with this unit to ensure compliance with the FCC Class B limits (See Instruction Sheet, 302111).

WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canada

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la class B prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada.

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